

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number
WO 2004/048413 A3

(51) International Patent Classification⁷: **C07K 16/30**

(21) International Application Number:
PCT/GB2003/005163

(22) International Filing Date:
26 November 2003 (26.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0227644.2 27 November 2002 (27.11.2002) GB

(71) Applicant (for all designated States except US): **CANCER RESEARCH TECHNOLOGY LIMITED** [GB/GB]; 61 Lincoln's Inn Fields, London WC2A 3PX (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **DURRANT, Gillian, Lindy** [GB/GB]; Meadow Lodge, Main Street, Bleasby, Nottingham NG14 7GH (GB).

(74) Agent: **MURGITROYD & COMPANY**; Scotland House, 165-169 Scotland Street, Glasgow G5 8PL (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
29 July 2004

[Continued on next page]

(54) Title: **CD55-INTERACTION PARTNERS AND THE USES THEREOF**

a. CDR amino acid sequences of 105AD7 anti-idiotypic antibody

CDR	Kappa (L)	Heavy (H)
1	ItcRASQDISSFLNwyq	ntSGVCVGwl
2	IyAASILQSqvp	wlaHIYWDDDKRYSPSLKsrt
3	yycQSQYKTPPSfgq	caqVLYYDFWSGYLEYfAYwgq

b. Alignment of CDRs with CD55

SCR-1 (1C)															SCR-2 (2N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
83	K	Q	S	Q	W	S	D	I	E	E	F	C	N	R	S	C	E	V	P	T	R	L	N	S	A	S	L	K	O	P	112																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	R	A	S	Q	.	.	D	I	S	S	F	L	N	.	.	.	.	.	W	D	D	D	K	R	Y	S	P	S	L	K	S																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
105AD7 CDR L1															105AD7 CDR H2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
SCR-2 (2C)															aa number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
S	L	S	P	K	L	T	C	L	Q	N	L	K	W	S	T	A	V	E	F	C	K	K	K																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	